### **ENVIRONMENTAL CHEMISTS**

Date of Report: 10/11/99 Date Received: 09/30/99

Project: Metro-Self Monitor, PO# M62709

Date Samples Extracted: 10/08/99
Date Extracts Analyzed: 10/08/99

## RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR CHROMIUM, COPPER, NICKEL, ZINC USING METHOD 6010

# Samples Processed Using Method 3005A

Results Reported as mg/L (ppm)

Sample ID	<u>Chromium</u>	Copper	<u>Nickel</u>	<u>Zinc</u>
M62709	0.27	0.36	0.31	0.15
Method Blank	< 0.05	< 0.05	< 0.05	< 0.05

### **ENVIRONMENTAL CHEMISTS**

Date of Report: 10/11/99 Date Received: 09/30/99

Project: Metro-Self Monitor, PO# M62709

# QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 909136-01 (Duplicate)

			particle in the control of the contr							
			Reporting	Sample	е	Duplica	te Percer	it /	Acceptan	ce
4	Analyte	N 153	Units	Result	,	Result	Differer	ıce	Criteria	<u>1</u>
	Chromium		ug/L (ppb)	0.27		0.26	4		0-20	
	Copper		ug/L (ppb)	0.36		0.33	9		0-20	
	Nickel		ug/L (ppb)	0.31		0.32	3		0-20	
	Zinc		ug/L (ppb)	0.15		0.09	50 a		0-20	

Laboratory Code: 909136-01 (Matrix Spike)

		Reporting	Spike	Sample	% Recove	ry % Recove	ery Acceptance	
. \	Analyte	Units	Level	Result	MS	MSD	Criteria	RPD
	Chromium	ug/L (ppb)	5	5.5	106	102	80-120	4
	Copper	ug/L (ppb)	5	5.5	102	99	80-120	3
	Nickel	ug/L (ppb)	10	114	110	119	80-120	9
	Zinc	ug/L (ppb)	5	6.6	129 vo	137 vo	80-120	6

Laboratory Code: Laboratory Control Sample

${f Re}_{f l}$	porting Spike	% Recovery	% Recovery	Acceptance	
Analyte U	Units Level	LCS	LCSD	Criteria	RPD
Chromium ug/	L (ppb) 5	109	109	80-120	0
Copper ug/	L (ppb) 5	108	108	80-120	0
Nickel ug/	L (ppb) 10	115	116	80-120	1
Zinc ug/	L (ppb) 5	117	120	80-120	<b>3</b>

a - The analyte was detected at a level less than five times the detection limit. The RPD results may not provide reliable information on the variability of the analysis.

vo - The value reported fell outside the control limits established for this analyte.

( DH 19.309. FRIEDMAN & BRUYA, INC. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 SAMPLE CHAIN OF CUSTODY Send Report To: A Company\_\_\_ Contact Address 628 City, State, Zip Seaffle Phone # 206 - 387-837 706-8582-4309 9-30-29 SITE NO. PROJECT NAME PURCHASE ORDER # 3278 matro Self monitor M 62709 SAMPLERS (signature) PROJECT LOCATION 6th Ave 5. 3000 REMARKS SAMPLE DISPOSAL INFORMATION Dispose after 30 days Return Samples Call for Instructions Date/Time Type of # of Lab Analyses Sample # Sampled Sample Sample # Requested Jars .01 M62709 420 N1 22 SIGNATURE Retinglished by PRINT NAME COMPANY Time Received by: C. Aust DIANNE C. HURT Relinquished by: Received by:

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09/09/99

### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

October 11, 1999

### DUPLICATE COPY

### **INVOICE #99ACU1011-1**

Accounts Payable Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

RE: Project Metro-Self Monitor, PO# M62709: Results of testing requested by Gerry Thompson for material submitted on September 30, 1999.

1 water sample analyzed for
Chromium, Copper, Nickel, and Zinc
using Method 6010 @ \$80 per sample

\$ 80.00

Amount Due \$ 80.00

PLEASE NOTE: As a convenience for our valued clients, we can accept credit cards (VISA, MasterCard or government purchasing cards) for payment on our invoices. Please contact our office if you would like to take advantage of this service.

FEDERAL TAX ID; (b) (6)

### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.



3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

October 11, 1999

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on September 30, 1999 from your Metro-Self Monitor, PO# M62709 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Dianne C. Horet

Dianne C. Hurt Project Manager

Enclosures ACU1011R.DOC